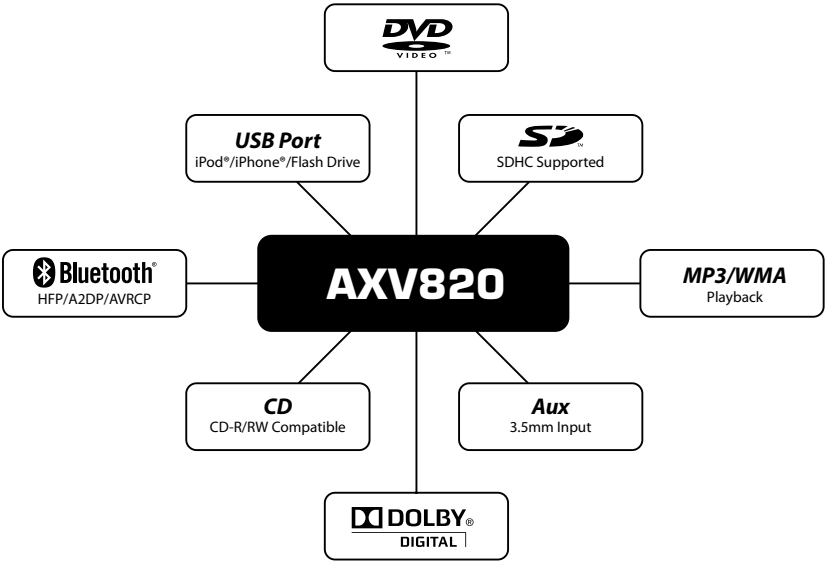
axxera

Multimedia Receiver

Made for iPod iPhone



Safety Notes:

The DVD video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash DVD video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion.

Copyright Notes

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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“Made for iPod” and “Made for iPhone” mean that an electronic accessory has been designed to connect specifically to iPod or iPhone, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

The SD logo is a trademark of the SD Card Association.

Other trademarks and trade names are those of their respective owners.

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⚠ WARNING ⚠

Upon installation of this Monitor/DVD player ("unit") into a vehicle, the driver of the vehicle must not operate this unit by watching videos or playing video games while driving. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.

Several states prohibit the installation of monitors/DVD players if the screen is visible from the driver's seat. If you reside in a jurisdiction which has enacted such a law, this unit must not be installed so that the screen is visible from the driver's seat. When installing this unit in the front console/dashboard, the unit must be positioned so that it is facing the front passenger seat only. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.

This unit is designed so that it may be operated only when the vehicle is in "Park" and the parking brake is fully engaged. To this end, this unit includes a parking brake lock-out feature which prohibits the unit from operating if the vehicle is not in "Park" and/or the parking brake is not fully engaged. When installing this unit, the installer must connect the parking brake detect wire ("Yellow-Blue Lead") to the parking brake mechanism in order to make the parking brake lock-out feature operable. DO NOT simply ground the parking brake detect wire to a metal portion of the vehicle. Failure to properly install the parking brake lock-out feature could lead to driver distraction which could result in serious injury or death to the driver's occupants or persons outside the vehicle and/or property damage.

Once the parking brake lock-out feature is installed, the owner/user must not attempt to disrupt/neutralize the parking brake lock-out feature by (a) partially engaging the parking brake and/or (b) purchasing/using any device or unit designed to send necessary brake signals to the unit. Failure to follow these instructions could lead to driver distraction which could result in serious injury or death to the driver's occupants or persons outside the vehicle and/or property damage.

When operating this unit, keep the unit's volume level low enough so that the vehicle's occupants can hear traffic-related sounds such as police and emergency vehicles. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.

⚠ Safety Information ⚠

Please read all instructions carefully before attempting to install or operate.

Due to its technical nature, it is highly recommended that your AXXERA AXV820 is installed by a professional installer or an authorized dealer. This product is only for use in vehicles with 12VDC negative ground only.

To prevent damage or injury:

- Make sure to ground the unit securely to the vehicle chassis ground.
- Do not remove the top or bottom covers of the unit.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or the possibility of water splashing.
- Do not subject the unit to excessive shock.
- When replacing a fuse, only use a new one with the prescribed rating. Using a fuse with the wrong rating may cause the unit to malfunction.
- To prevent short circuits when replacing a fuse, disconnect the wiring harness first.
- Use only the provided hardware and wire harness.
- You cannot view video while the vehicle is moving. Find a safe place to park and engage the parking brake.
- If you experience problems during installation, consult your nearest Axxera dealer.
- If the unit malfunctions, reset the unit as described on page 10 first. If the problem still persists, consult your nearest Axxera dealer or call tech assistance @ 1-866-382-5476.
- To clean the monitor, wipe only with a dry silicone cloth or soft cloth. Do not use a stiff cloth, or volatile solvents such as paint thinner and alcohol. They can scratch the surface of the panel and/or remove the printing.
- When the temperature of the unit falls (as in winter), the liquid crystal inside the screen will become darker than usual. Normal brightness will return after using the monitor for a while.
- When extending the ignition, battery or ground cables, make sure to use automotive-grade cables or other cables with an area of 0.75mm (AWG 18) or more to prevent voltage drops.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken. The liquid crystal fluid may be hazardous to your health or fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

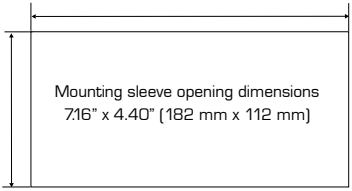
Preparation

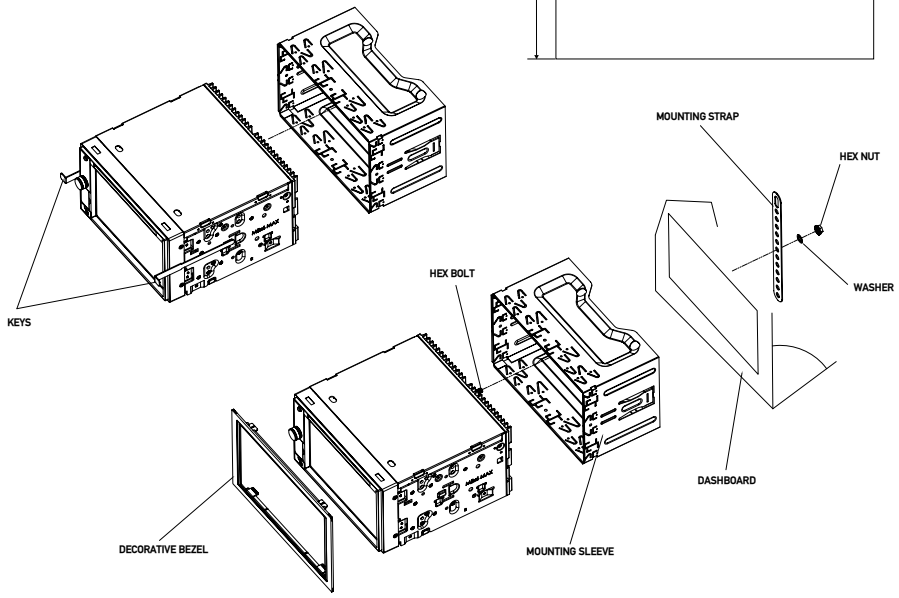
Before You Start

- Disconnect negative battery terminal. Consult a qualified technician for instructions.
- Avoid installing the unit where it would be subject to high temperatures, such as from direct sunlight, or where it would be subject to dust, dirt or excessive vibration.

Getting Started

- Insert the supplied keys into the slots as shown, and slide unit out of the mounting sleeve.
- Install mounting sleeve into opening, bending tabs to secure.
- Connect wiring harness as shown on page 6. Consult a qualified technician if you are unsure.
- Certain vehicles may require an installation kit and/or wiring harness adapter (sold separately).
- Reconnect negative battery terminal, and test for correct operation.
- Snap trim ring into place (if required).
- Slide unit into mounting sleeve to secure.

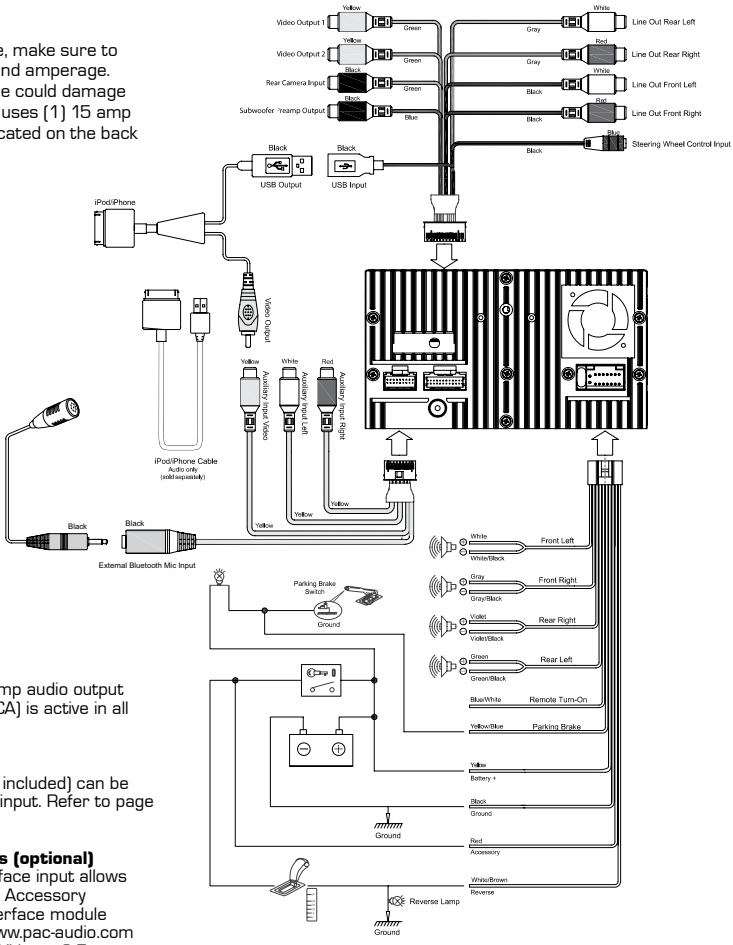




TYPICAL FRONT-LOAD DIN MOUNTING METHOD

Wiring Diagram - Inputs/Outputs

Note:
When replacing a fuse, make sure to use the correct type and amperage. Using an incorrect fuse could damage the unit. The AXV820 uses (1) 15 amp ATM mini style fuse located on the back of the unit.



Wiring Notes:

Subwoofer output
The **SUBWOOFER** preamp audio output (blue jacket with black RCA) is active in all audio modes.

Rear view camera
A rear view camera (not included) can be used with the **CAMERA** input. Refer to page 31 for details.

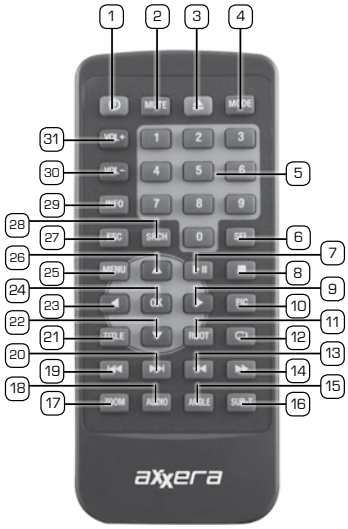
Steering wheel controls (optional)
The steering wheel interface input allows connection to the Pacific Accessory Corporation **SWI-PS** interface module (sold separately). Visit www.pac-audio.com for details. *Note the SWI input 3.5mm connector color is blue.

Connecting an iPod/iPhone Device
To play music from an iPod/iPhone device using the direct USB interface, connect the USB cable (included with your iPod/iPhone device) to one of the AXV820's USB port (front or rear). Once connected, playback will begin automatically. To view video and photos from an iPod/iPhone device, the iPod video cable (included) is required.

Bluetooth
The **Bluetooth microphone input** allows connection of an external Bluetooth microphone (included). Refer to page 31 for mounting instructions for the external microphone.

Control Locations

Control	Function	Control	Function
1	Eject	5	SD Card Slot
2	Mode	6	Front USB Port
3	Menu	7	Auxiliary A/V Input
4	Power / Volume / Mute	8	Reset



Control	Function	Control	Function
1	Power	16	Subtitle
2	Mute	17	Zoom
3	Eject	18	Audio
4	Mode	19	Chapter / Track / Seek Tune Down
5	Number Keys	20	Chapter / Track / Seek Tune Up
6	Select	21	Title Menu
7	Play / Pause	22	Arrow Down
8	Stop	23	Arrow Left
9	Arrow Right	24	OK
10	Picture	25	Menu
11	Root Menu	26	Arrow Up
12	Repeat	27	Escape
13	Fast Reverse / Manual Tune Down	28	Search
14	Fast Forward / Manual Tune Up	29	Info
15	Angle	30	Volume Down
		31	Volume Up

*** The remote control uses one 3 volt Lithium CR2025 battery. For best performance, replace only with CR2025 or equivalent.**

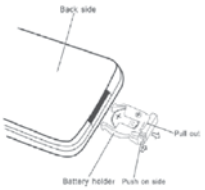
Remote Preparation

Remove battery insulation tape .

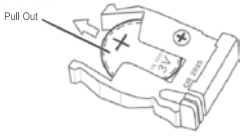
Notes:

- Remove the battery if the remote will not be used for a month or longer.
- Remove and dispose of battery properly.
- Do not store battery with metallic objects or materials.

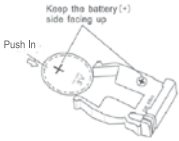
To insert or replace the battery, remove the battery holder.



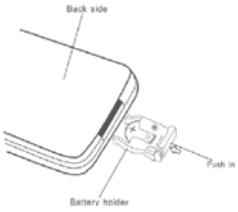
Remove the battery from the battery holder.



Install the new battery. Make sure to keep the (+) side up.



Insert the battery holder .



General Operation

Power On/Off

Momentarily press the **volume knob** to turn the unit on. Hold for 2 seconds to turn the unit off.

Mode

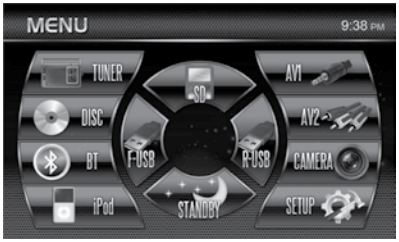
Press **MODE** to step through all available input modes: Tuner, Disc (which includes DVD and CD playback), SD, USB, operation of iPod, AV1, AV2, Camera and Bluetooth. Modes of operation are indicated on the OSD On Screen Display. Disc, iPod device, USB flash drive and/or SD card must be connected/inserted in order to appear in the mode selection string.

When one of the operational modes is selected, icons for the other modes are displayed across the top center region of the display. The example below shows the unit in Tuner mode, with icons displayed for iPod, USB, SD and Disc. Directly access a different mode by touching the corresponding icon.

Modes of operation can also be accessed from the Main Menu screen (see below).

Menu

Press **MENU** to view/select any operational mode (Tuner, Disc, Bluetooth, iPod, AV1, AV2, Camera, SD Card and front or rear USB), to enter the Setup menu or to put the unit in Standby mode.



The Main Menu screen can also be accessed by pressing the key area in the top left corner of the touch screen that displays the current mode of operation.

Volume

Turn the **volume knob** to adjust the volume level lower or higher (0-40). The current volume level will be displayed during adjustment.

Mute

Briefly press the **volume knob** (**MUTE)** to silence the audio; 🔇 will appear in the OSD (On Screen Display). Briefly press the **volume knob** (**MUTE)** again to cancel. Turning the **volume knob** while the volume is muted will also cancel the mute function.

3.5mm A/V Input

Connect external devices to this 3.5mm auxiliary A/V input.

General Operation

Standby Mode

To put the unit in full standby mode (black screen with no text display), choose Standby from the Menu screen.

Reset

To resolve abnormal operation or if the unit is inoperable, use the tip of a pen to press the **RESET** button located in the top right corner. The unit will reset the main processor to the default settings.

Audio Setup

From any operational mode, press the icon in the bottom left corner of the screen to access the Audio menu.

Menu	Option	Action
Levels	EQ	Press ◀ or ▶ to select between the preset equalization curves (User, Flat, Jazz, Pop, Rock, Soft, Vocal, Classic, Dance, Movie and Hip-Hop), or manually adjust the subwoofer (SW), bass (BASS), midrange (MID) or treble (TREB) levels by manually dragging the adjustment button right or left.
	Loudness	Press **Off** or **On** to deactivate or activate the Loudness feature.
Position	Balance	Drag the adjustment button to adjust Balance **Left** or **Right**.
	Fader	**Fader** - Drag the adjustment button to adjust Fader **Front** or **Rear**.
Setup	Bass	Select a Bass setting: 60Hz, 80Hz, 100Hz, or 200Hz.
	Midrange	Select a Midrange setting: 500Hz, 1KHz, 1.5KHz or 2.5KHz.
	Treble	Select a Treble setting: 10KHz, 12.5KHz, 15KHz or 17.5KHz
Crossover	Subwoofer Low-Pass Filter	Select setting for the Subwoofer Low-Pass Filter: 80Hz, 120Hz or 160Hz.

Exit Audio Setup

After audio adjustment is complete, press to return to the previous screen.

General Operation

Setup Menu

From the Main Menu screen, press **Setup** to enter the Setup menu. The first four setup options will be displayed on the screen. Press ⓓ or ⓤ to scroll down or back up through the additional options:

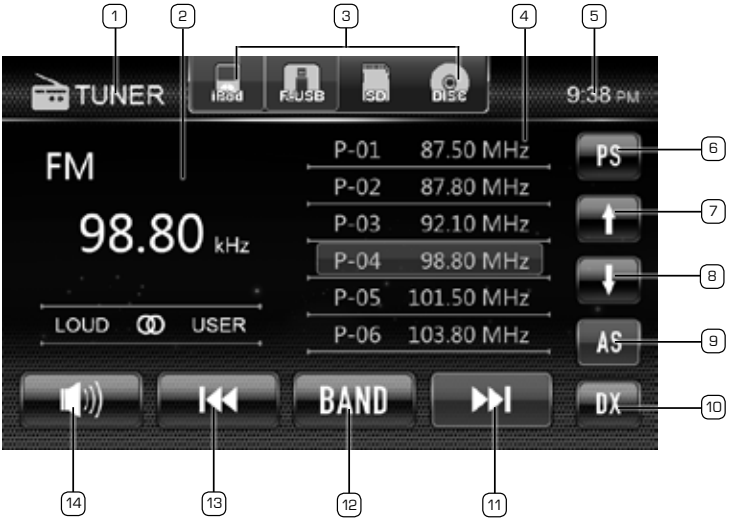
Menu	Option	Action
Screen	Brightness	Press **+** or **-** to increase or decrease screen brightness.
	Contrast	Press **+** or **-** to increase or decrease contrast levels.
	Color	Press **+** or **-** to increase or decrease color levels.
DVD	Mode	Select one of the following modes for DVD playback: Full, Original, Height Fit or Width Fit.
	Rating	Limit DVD playback according to rating by selecting the highest allowed rating level in the Parental Control setting. A password is required to adjust the rating level, and the default password is "0000". To change the password, press Set Password. The unit will prompt you to enter the existing password, then the new password.
Time	Time	To adjust hours, minutes or AM/PM, press the desired field and enter the correct number using the on-screen keypad.
	Mode	Select between 12-hour and 24-hour clock formats.
Tuner	Region	Select between USA and Europe frequency spacing.
	Tune Type	Select between Seek and Manual tuning. Seek tuning will seek the next or previous strong station when the tuning buttons (⏭ or ⏮) are pressed. In manual tuning mode, pressing the tuning buttons will increase or decrease the frequency one step at a time.

General Operation

Setup Menu

Menu	Option	Action
Calibrate	Calibrate Touchscreen	Press **YES** to calibrate the touchscreen.
System	Camera	Choose between **Normal** and **Mirror** settings for camera images.
	Beep	Select **On** to hear an audible beep each time a button is pressed on the unit or touch screen. Select **Off** to disable the audible beep.
Security	Anti-Theft	Select **On** to enable anti-theft features or **Off** to disable them.
Gain	Sources 1	Manually adjust the gain from each of the following sources: Disc/SD/USB, iPod and Tuner.
	Sources 2	Manually adjust the gain from each of the following sources: AV1, AV2 and Bluetooth.
	Sources 3	Manually adjust the gain from the Bluetooth microphone.
iPod	IPV40	Select **Yes** to enable iPod video/photo playback through use of the optional IPV40 cable (sold separately). Select **No** to disable the IPV40 connection.
	Connect To	Select **F-USB** to coneect to the Front USB port or **R-USB** to connect to the Rear USB port
Bluetooth	Setup	Turn Bluetooth function **On** or **Off**, set the Bluetooth connection to **Manual** or **Auto**, and choose between the **Internal** and **External** microphones.
	Device List	Scroll through a list of available devices, and choose desired connection.
Restore	Restore Default Settings	Select **Yes** to restore the unit to default settings.
Info	Software Version	Will display current version number.

AM/FM Tuner Operation



Tuner Operation — Select the Tuner icon from the Main Menu screen or the top icon display, or press **MODE** until Tuner is selected.

Current Mode Indicator 1 — Displays current mode of operation. Press to return to the Main Menu screen.

Information Display 2 — Displays current frequency, along with additional tuning information.

Additional Mode Icons 3 — Press any mode icon to switch instantly to that mode of operation.

Preset Station Display 4 — Displays the first six preset stations stored in memory. Use the arrow keys to scroll down and back up through the entire list. Press any preset station to play it instantly. Up to 18 FM and 18 AM stations can be stored in memory.

Clock Indicator 5 — Displays the current time.

Preset Scan 6 — Press to scan all preset stations and listen to the first 10 seconds of each. Press again to stop scanning and listen to the current station.

Scroll Up 7 — Press to scroll up to the previous page in the preset station display list.

Scroll Down 8 — Press to scroll down to the next page in the preset station display list.

Automatically Store 9 — Press to automatically find and store the strongest stations as presets.

Note: To manually save preset stations, tune to the desired station, then press and hold the desired preset number in the preset station display. The newly-stored station will appear next to the preset number when saved.

AM/FM Tuner Operation

Local / Distance Tuning (10)

Press to choose between Local (LOC) or Distance (DX) tuning options. The local option tunes to nearby radio stations with sufficiently strong signals for good reception. In areas where reception is poor, switching to distance tuning enables the unit to tune in to more distant stations. Distance tuning is the default tuning mode.

Tune Frequency Up (11)

Press to tune radio to a higher frequency. This function can also be performed by pressing the corresponding key on the remote control.

Note: Refer to page 11 for instructions on selecting either Seek or Manual tuning. Seek tuning will seek the next strong station when the Tune Frequency Up button (⏭) is pressed. In manual tuning mode, pressing this button will increase the frequency one step at a time.

Band (12)

Press to toggle between AM and FM frequencies.

Tune Frequency Down (13)

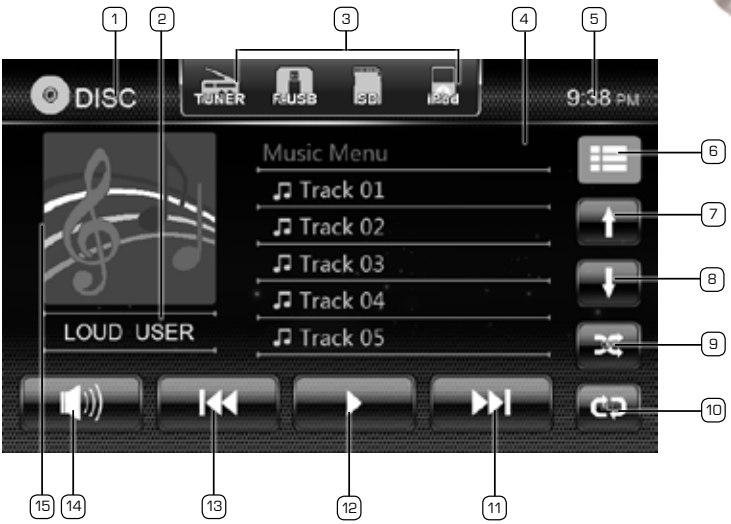
Press to tune radio to a lower frequency. This function can also be performed by pressing the corresponding key on the remote control.

Note: Refer to page 11 for instructions on selecting either Seek or Manual tuning. Seek tuning will seek the previous strong station when the Tune Frequency Down button (⏮) is pressed. In manual tuning mode, pressing this button will decrease the frequency one step at a time.

Audio Setup (14)

Press to enter audio setup mode (see page 10 for details).

CD Operation



CD Operation — With the label facing up, insert a standard size disc into the slot, and playback will begin automatically. If a disc has previously been inserted and the unit has been operating in another mode, resume disc playback by selecting the DISC icon from the Main Menu screen or top icon display, or pressing **MODE** until DISC is selected.

Current Mode Indicator (1) — Displays current mode of operation. Press to return to the Main Menu screen.

Information Display (2) — Displays current information about audio settings.

Additional Mode Icons (3) — Press any mode icon to switch instantly to that mode of operation.

CD Track List (4) — Displays the first five tracks on the CD. Use the arrow keys to scroll down and back up through the entire list, or press any track number to play it instantly. Elapsed time of current track will be displayed when playback begins.

Clock Indicator (5) — Displays the current time.

Track Information Selection (6) — Press to toggle between track play list and current track information.

Scroll Up (7) — Press to scroll up to the previous page in the track play list.

CD Operation

Scroll Down 8
Press to scroll down to the next page in the track play list.

Random 9
Press to play all tracks on the CD in random order. Press again to end random playback.

Repeat 10
Press to repeat current track (Repeat One). Press again to turn off the repeat function (Repeat All),

Next Track 11
Press to advance to the next track

Play / Pause 12
Press to pause CD. Press again to resume CD playback.

Previous Track 13
Press to go back to the previous track.

Audio Setup 14
Press to enter audio setup mode (see page 10 for details).

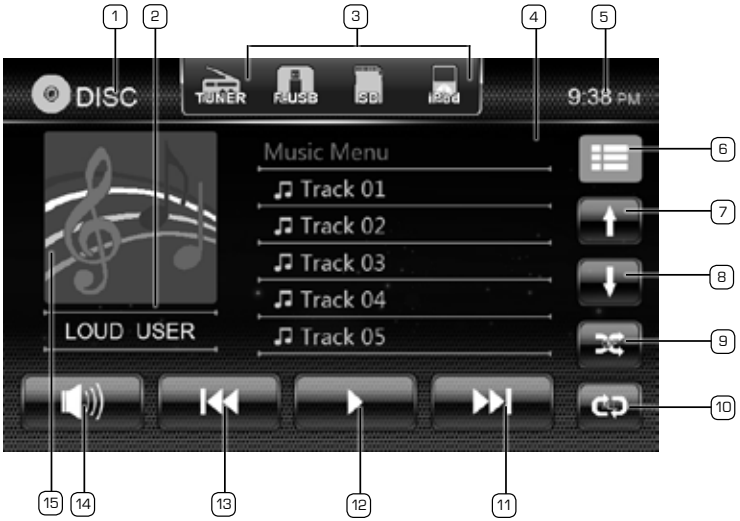
Access CD Track List 15
Press the music note or album art (when available) to access the CD track list when individual track information is being displayed.

Fast Forward
Press ▶▶ on the remote control to fast forward CD playback. Each touch changes speed from 2x to 4x to 8x to 16x then back to regular playback.

Fast Reverse
Press ◀◀ on the remote control to fast reverse CD playback. Each touch changes speed from 2x to 4x to 8x to 16x then back to regular playback.

Note: Fast forward and fast reverse features can also be accessed using the touch screen to drag the elapsed time indicator forward or backward to the desired point of playback. The elapsed time indicator appears under the track number during CD playback.

MP3/WMA/JPG Operation



MP3/WMA/JPG Playback from Disc, USB Device or SD Card

The AXV820 can play MP3, WMA and JPG files from a disc, USB device or SD card. Insert disc, connect USB device or insert SD card, and playback will begin automatically. To return to disc, USB or SD card playback from another mode of operation, select the DISC, USB or SD icon from the Main Menu screen or top icon display, or press **MODE** until DISC, USB or SD is selected.

- **Insert Disc** - With the label facing up, insert a standard size disc into the slot, and playback will begin automatically.
- **Connect USB Device** - Connect a USB device to the black USB input connector on the back of the unit or into the USB slot on the front panel.
- **Insert SD Card** - Insert SD card into the SD slot on the front of the unit. When inserting an SD card, the label should face the right side of the unit.

Note: It is not possible to view JPG files on the in-dash monitor while the vehicle is moving. This is a safety feature to prevent driver distraction. The JPG image viewer function will only operate when vehicle is in Park and the parking brake is engaged as described on page 22.

Current Mode Indicator 1

Displays current mode of operation. Press to return to the Main Menu screen.

Note: "USB" or "SD" will be displayed in place of "Disc" during the corresponding modes of operation.

Information Display 2

Displays current information about audio settings.

Additional Mode Icons 3

Press any mode icon to switch instantly to that mode of operation.

Play List 4

Displays the first five folders, tracks or image files on the disc, USB device or SD card. Use the arrow keys to scroll down and back up through the entire list. Press any track or image number to access it instantly, or select a folder to view tracks or images in that folder.

Clock Indicator 5

Displays the current time.

MP3/WMA/JPG Operation

Track/Folder Selection (6)

Press to toggle between track navigation and folder navigation for the Scroll Up and Scroll Down arrow buttons.

Scroll Up (7)

Press to scroll up to the previous page in the play list. To scroll up to the previous page in the folder list, first press the Track/Folder Selection button and a folder icon will appear next to the up arrow.

Scroll Down (8)

Press to scroll down to the next page in the play list. To scroll down to the next page in the folder list, first press the Track/Folder Selection button and a folder icon will appear next to the down arrow.

Random (9)

Press to play all tracks on the disc, USB device or SD card in random order. Press again to end random playback.

Repeat (10)

Press to step through the following repeat options:

- **Repeat One** - Repeat current track.
- **Repeat Folder** - Repeat all tracks in current folder.
- **Repeat All** - Repeat all tracks on device (play all).

Next Track (11)

Press to advance to the next track.

Play / Pause (12)

Press to pause playback. Press again to resume playback.

Previous Track (13)

Press to go back to the previous track.

Audio Setup (14)

Press to enter audio setup mode (see page 10 for details).

Display (15)

Press the music note or album art (when available) to return to the play list when the elapsed time of current track is displayed.

Fast Forward

Press ▶▶ on the remote control to fast forward playback. Each touch changes speed from 2x to 4x to 8x to 16x then back to regular playback.

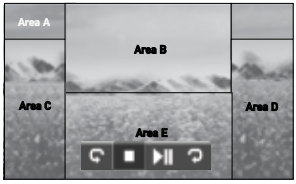
Fast Reverse

Press ◀◀ on the remote control to fast reverse playback. Each touch changes speed from 2x to 4x to 8x to 16x then back to regular playback.

Note: Fast forward and fast reverse features can also be accessed using the touch screen to drag the elapsed time indicator forward or backward to the desired point of playback. The elapsed time indicator appears under the track number during playback.

Viewing JPG Images

When viewing JPG images from a disc, the hidden controls function similar to DVD mode (refer to page 25). Press **Area E** to display on-screen JPG controls.



- Press ↺ to rotate image counterclockwise.
- Press ■ to stop the slideshow.
- Press ⏯ to pause or resume playback.
- Press ↻ to rotate image clockwise.

Media Compatibility

Media Compatibility

The following types of discs are compatible:
- CD-DA, CD-ROM (ISO), CD-R, CD-RW
- DVD Video, DVD+R/RW, DVD-R/RW

The following types of discs/files are **not** compatible:
- WMA files that are protected by DRM (Digital Rights Management)
- WMA lossless format
- Discs recorded with Track At Once or packet writing
- MP3 PRO format, MP3 playlists
- RMP format
- WAV format
- WMV format
- DivX, Xvid format
- AVI format
- MPG, MPEG-4 format
- AAC, protected AAC, M4A format

Some recordable DVD's and CD's may be incompatible with this unit, depending on media type and recording method.

Playback Order

MP3/WMA playback sequence is based on recorded order of files and begins in the root folder of the disc, USB flash drive or SD card. Any empty folders or folders that do not include MP3/WMA/JPG files are skipped.

Compatible Recording Formats

ISO9660 standards:
- Maximum nested folder depth is 8 (including the root folder).
- Valid characters for folder/file names are letters A-Z (all caps), numbers 0-9, and "_" (underscore). Some characters may not be displayed correctly, depending on the character type.
- This device can play back discs in Joliet and other standards that conform to ISO9660. MP3/WMA written in the formats other than the above may not play and/or their file names or folder names may not be displayed properly.

Additional MP3/WMA Information

An internal buffer provides ESP (Electronic Skip Protection) to virtually eliminate skipping.

When playing a disc recorded with regular audio files (CD-DA or .WAV) and MP3/WMA files, the unit will play the MP3/WMA files only.

Some files may not play or be displayed correctly, depending on sampling rates and bit rates.

Notes

For best results, use the following settings when ripping MP3 files:
128kbps or higher constant bit rate
44.1kHz or higher sampling frequency

For best results, use the following settings when ripping WMA files:
64kbps or higher constant bit rate
44.1kHz or higher sampling frequency

Media Compatibility - CD/DVD

File Type				WMA	MP3
File System	ISO9660	Level 1, Level 2		✔	✔
		Level 3		X	X
	ISO9660 Extension	JOLIET	Playback	✔	✔
			Filename	32 bytes	32 bytes
	Other Extensions	ROMEO	Playback	X	X
			Filename	X	X
		Apple ISO		X	X
File Extension	.mp3/.MP3/.Mp3/.mP3			X	✔
	.wma/.WMA			✔	X
	.rmp/.m4a			X	X
MPEG Format	MPEG 1			X	✔
	MPEG 2			X	✔
	MPEG 2.5			X	✔
Sampling Frequency	MPEG 1			X	32/44.1/48kHz
	MPEG 2			X	12/16/22.05/24kHz
	MPEG 2.5			X	8/11.025/12kHz
	WMA			32/44.1/48kHz	X
Bitrate	MPEG 1			X	32 ~ 320kbps
	MPEG 2			X	8 ~ 160kbps
	MPEG 2.5			X	8 ~ 160kbps
	WMA			32 ~ 192kbps	X
Other Information	Directory Depth			Unlimited	Unlimited
	File Name Length			32 bytes	32 bytes
	Total File Number			2000 files	2000 files
	Total Folder Number			200 folders	200 folders
	File Number via Folder			2000 files	2000 files
	MP3 ID3 TAG	ver.1.x		X	✔
		ver.2.x		X	✔
		Title, Artist, Album		X	✔
	WMA TAG	Title, Artist, Album		✔	X

Notes:

- It is not possible to view JPG files on the in-dash monitor while the vehicle is moving. This is a safety feature to prevent driver distraction.
- The JPG image viewer function will only operate when vehicle is in park and the parking brake is engaged as described on page 22.

Media Compatibility USB/SD Card

File Type			WMA	MP3
File System	FAT	FAT 12	X	X
		FAT 16/FAT 32	✓	✓
File Extension	.mp3/.MP3/.Mp3/.mP3		X	✓
	.wma/.WMA		✓	X
	.rmp/.m4a		X	X
MPEG Format	MPEG 1		X	✓
	MPEG 2		X	✓
	MPEG 2.5		X	✓
Sampling Frequency	MPEG 1		X	32/44.1/48kHz
	MPEG 2		X	12/16/22.05/24kHz
	MPEG 2.5		X	8/11.025/12kHz
	WMA		32/44.1/48kHz	X
Bitrate	MPEG 1		X	32 ~ 320kbps
	MPEG 2		X	8 ~ 160kbps
	MPEG 2.5		X	8 ~ 160kbps
	WMA		32 ~ 192kbps	X
Other Information	Directory Depth		Unlimited	Unlimited
	File Name Length		32 bytes	32 bytes
	Total File Number		2000 files	2000 files
	Total Folder Number		200 folders	200 folders
	File Number via Folder		2000 files	2000 files
	MP3 ID3 TAG	ver.1.x	X	✓
		ver.2.x	X	✓
		Title, Artist, Album	X	✓
	WMA TAG	Title, Artist, Album	✓	X

Notes:

- For USB mode, it is not possible to view JPG files on the in-dash monitor while the vehicle is moving. This is a safety feature to prevent driver distraction.
- The JPG image viewer function will only operate when vehicle is in park and the parking brake is engaged as described on page 22.
- Due to ongoing technological advancement, some USB flash drives and/or SD cards may be incompatible with this unit.

⚠ WARNING ⚠

Upon installation of this Monitor/DVD player ("unit") into a vehicle, the driver of the vehicle must not operate this unit by watching videos or playing video games while driving. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.

Several states prohibit the installation of monitors/DVD players if the screen is visible from the driver's seat. If you reside in a jurisdiction which has enacted such a law, this unit must not be installed so that the screen is visible from the driver's seat. When installing this unit in the front console/dashboard, the unit must be positioned so that it is facing the front passenger seat only. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.

This unit is designed so that it may be operated only when the vehicle is in "Park" and the parking brake is fully engaged. To this end, this unit includes a parking brake lock-out feature which prohibits the unit from operating if the vehicle is not in "Park" and/or the parking brake is not fully engaged. When installing this unit, the installer must connect the parking brake detect wire ("Yellow-Blue Lead") to the parking brake mechanism in order to make the parking brake lock-out feature operable. DO NOT simply ground the parking brake detect wire to a metal portion of the vehicle. Failure to properly install the parking brake lock-out feature could lead to driver distraction which could result in serious injury or death to the driver's occupants or persons outside the vehicle and/or property damage.

Once the parking brake lock-out feature is installed, the owner/user must not attempt to disrupt/neutralize the parking brake lock-out feature by (a) partially engaging the parking brake and/or (b) purchasing/using any device or unit designed to send necessary brake signals to the unit. Failure to follow these instructions could lead to driver distraction which could result in serious injury or death to the driver's occupants or persons outside the vehicle and/or property damage.

When operating this unit, keep the unit's volume level low enough so that the vehicle's occupants can hear traffic-related sounds such as police and emergency vehicles. Failure to follow this instruction could lead to driver distraction which could result in serious injury or death to the vehicle's occupants or persons outside the vehicle and/or property damage.

DVD Setup

DVD Region Management

Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the AXV820 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc. This player has been designed to play back DVD software that has been encoded for specific region areas. It cannot play back DVD software encoded for other region areas than the region areas for which it has been designed.

The AXV820 will play discs labeled "Region 1" or "All".

DVD region codes:

1 - USA, Canada
2 - Japan, Europe, South Africa, Middle East
3 - Rep. of Korea, Taiwan, Hong Kong, Parts of Southeast Asia
4 - Australia, New Zealand, Mexico, South America
5 - Eastern Europe, Russia, India, Africa
6 - China

DVD Disc Symbols

Symbol	12cm Disc Properties	Max Play Time
DVD VIDEO DVD VIDEO	Single side single layer (DVD-5) Single side double layer (DVD-9) Double side single layer (DVD-10) Double side double layer (DVD-18)	(MPEG 2 Method) 133 minutes 242 minutes 266 minutes 484 minutes
COMPACT disc DIGITAL VIDEO	Single side single layer (VCD)	(MPEG 1 Method) 74 minutes
COMPACT disc DIGITAL AUDIO TEXT	Single side single layer	74 minutes

Symbol	Meaning
8	Number of voice languages recorded. The number inside the icon indicates the number languages on the disc (maximum of 8).
32	Number of subtitle languages available on the disc (maximum of 32).
9	Number of angles provided (maximum of 9).
16:9 LB	Aspect ratios available. "LB" stands for Letter Box and "PS" stands for Pan/Scan. In the example on the left, the 16:9 video can be converted to Letter Box video.
ALL	Indicates the region code where the disc can be played. · Region 1: USA, Canada, East Pacific Ocean Islands · Region 2: Japan, Western Europe, Northern Europe, Egypt, South Africa, Middle East · Region 3: Taiwan, Hong Kong, South Korea, Thailand, Indonesia, South-East Asia · Region 4: Australia, New Zealand, Middle and South America, South Pacific Ocean Islands/ Oceania · Region 5: Russia, Mongolia, India, Middle Asia, Eastern Europe, North Korea, North Africa, North-West Asia

Notes:
Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the AXV820 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc.

DVD Setup

CAUTION !!!
IT'S UNLAWFUL TO OPERATE A VEHICLE WHILE VIDEO IS DISPLAYED IN THE DRIVER'S VIEWING AREA.

ENGAGE EMERGENCY BRAKE TO WATCH VIDEO

SAFETY WARNING

- The video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. In-dash video functions will only operate when vehicle is in Park and the **PARKING BRAKE** is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion. Refer to local laws in your area.
- The vehicle must be in park and the parking brake applied to view video on the in-dash monitor.
- As a safety feature, **!!Safety Warning!!** blue screen will show on the display when the vehicle's parking brake is not engaged. Video display on the front monitor isn't allowed until the **PARKING BRAKE** is engaged. Connect the yellow/blue **PARKING BRAKE** wire to the brake switch circuit as described on page 6. **Note:** DVD and AUX AV audio can be heard while the vehicle is in motion without engaging the parking brake.

Front Monitor Video Initialization

Follow these two initialization procedures carefully to allow video playback on the AXV820 front monitor:

There are two situations to initiate the PARKING BRAKE sequence.

Parking Brake Initialization Situation 1

First situation (if vehicle is moving):
1) Stop vehicle, put in Park, make sure PARKING BRAKE is off/released.
2) Depress PARKING BRAKE for 1 second.
3) Release PARKING BRAKE for 1 second.
4) Depress PARKING BRAKE permanently.

Note:
Once above procedure 1-4 is completed, video will display in about 2 seconds.

Parking Brake Initialization Situation 2

Second situation (if vehicle is already parked and the PARKING BRAKE is already applied):
1) Keep vehicle in Park, PARKING BRAKE should be on.
2) Release PARKING BRAKE for 1 second.
3) Depress PARKING BRAKE for 1 second.
4) Release PARKING BRAKE for 1 second.
5) Depress PARKING BRAKE permanently.

Note:
Once above procedure 1-5 is completed, video will display in about 2 seconds.
The transition time must be less than 2 seconds between depress and release.
This procedure must be repeated anytime the vehicle ignition is turned off.

DVD Operation

Inserting a Disc

With the label facing up, insert a standard size disc into the slot, and playback will begin automatically. Sub-menus may have to be pressed to access the DVD content. Read the directions of your specific DVD disc for other features.

Note

If parental controls are activated and the disc inserted is not authorized, a 4-digit password must be entered to continue playback. See DVD Rating instructions on page 11 for details.

Ejecting the Disc

Press ⏏ to eject the disc.

Hidden Touch Screen Controls

In DVD mode, six hidden touch screen controls enable various functions during playback of DVDs. A DVD disc must be inserted to access these functions and features.

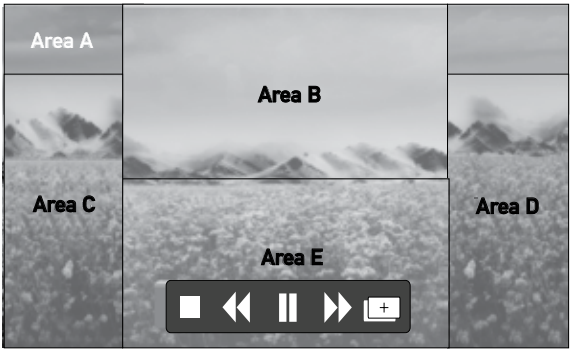
Area A - Displays **MAIN** menu.

Area B - Displays **DVD** disc information, including current time, title, chapter audio, subtitle languages and angle.

Area C - Selects **PREVIOUS** chapter.

Area D - Selects **NEXT** chapter.

Area E - Displays the **DVD** transport controls.

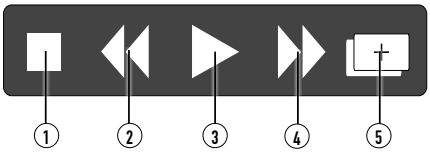


Note: During DVD playback, use the on-screen DVD transport controls to perform additional functions as outlined on page 26.

DVD Operation

DVD Touch Screen Controls

During DVD playback, use the DVD touch screen controls to access various features. The main DVD touch screen controls are accessed by touching Area E on the hidden touch screen controls.



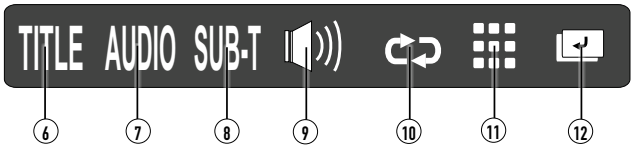
Stop (1) Press once to stop the chapter at current point of playback. Press again to fully stop the disc.

Fast Reverse (2) Press to step through the following fast reverse speeds: 2x, 4x, 8x or 16x. Press again to resume normal play.

Pause (3) Press to pause DVD playback. Press again to resume.

Fast Forward (4) Press to step through the following fast forward speeds: 2x, 4x, 8x or 16x. Press again to resume normal play.

Additional Options (5) Press to access additional options. The following submenu will appear:



Title Menu (6) Press to access the Title menu.

Audio Language (7) Press to change language of the audio playback.

Subtitles (8) Press to display subtitles.

Audio Setup Mode (9) Press to access audio setup mode.

Repeat (10) Press to activate repeat functions: repeat chapter, repeat title and repeat off.

DVD Search (11) Press to access search mode and enable searching by title, chapter or time (see page 27 for details).

Previous Menu (12) Press to return to previous DVD touch screen control menu.

Note: Stop, Fast Reverse, Pause, Fast Forward, Title, Audio, Subtitle and Repeat functions can also be accessed by pressing the corresponding button on the remote control. The Search function is accessed by pressing **SRCH** on the remote control. In addition, several DVD features - Zoom, Angle and Root Menu - can only be accessed from the remote control (see page 28 for more information).

DVD Operation

Searching a DVD

Use the touch screen controls to bring up the Search keypad, which allows a search for a specific time, title or chapter. The Chapter search window appears as the default. Alternately, access the Search keypad using the **SRCH** button on the remote control (see below).

Once the Search window is open, press the corresponding button to search by Title, Chapter or Time, then use the keypad to enter the desired title, chapter or time. Press **OK** to begin playback at desired place or time.

For example, to skip to 1 hour, 12 minutes and 19 seconds into the DVD, select Time, then touch **0 1, 1 2, 1 9, OK**).

From the remote control:
Press **SRCH** once to access the Search window. Use the arrows to highlight either the Title, Chapter or Time field, and use the numeric keypad to enter the appropriate information. Press **OK** to begin playback at desired location.

Note:
Some DVD discs can be played only in certain playback modes according to the intentions of the software. As the AXV820 plays discs according to their intentions, some functions may not work as intended. Please be sure to read the instructions provided with each disc.

DVD Operation

Remote Control

Many DVD features and functions can be accessed using the remote control.

Stop, Fast Reverse, Pause, Fast Forward, Title, Audio, Subtitle and Repeat functions, are accessed by pressing the button on the remote control that corresponds to the same button on the DVD touch screen controls (see page 26 for more information).

The Search function is accessed by pressing **SRCH** on the remote control.

The following DVD features can only be accessed from the remote control:

Zoom

Press **ZOOM** on the remote control to enlarge and pan through the video image using the following zoom options: 1, 2, 3 and OFF.

Angle

Some DVDs contain scenes that have been shot from different angles. For DVDs recorded with multiple angles, press **ANGLE** on the remote control to toggle available angles.

Root Menu

Press **ROOT** on the remote control to return to the DVD's root menu.

iPod Operation

iPod Operation — Connect an iPod to the AXV820 to enable audio and video playback from your iPod device.

Note: A standard iPod cable (sold separately) can be used to connect all iPod devices for audio playback. To view video and photos from an iPod device, the included iPod video cable is required.

Current Mode Indicator (1) — Displays current mode of operation. Press to return to the Main Menu screen.

Information Display (2) — Displays current information about audio settings.

Additional Mode Icons (3) — Press any mode icon to switch instantly to that mode of operation.

Play List (4) — Displays the first five files/folders on the iPod device. Use the arrow keys to scroll down and back up through the entire list. Press any file number to play it instantly, or select a folder to view files in that folder.

Clock Indicator (5) — Displays the current time.

Menu Mode (6) — Press to enter menu mode to toggle between Music, Video and Photo files to navigate using the Scroll Up and Scroll Down arrow buttons.

Scroll Up (7) — Press to scroll up to the previous page in the file play list. To scroll up to the previous page in the folder list, first press the File/Folder Selection button and a folder icon will appear next to the up arrow.

iPod Operation

Scroll Down 8
Press to scroll down to the next page in the file play list. To scroll down to the next page in the folder list, first press the File/Folder Selection button and a folder icon will appear next to the down arrow.

Random 9
Press once to random play all songs within the list. Press twice to random play all songs on the current album. Press again to cancel the random function.

Repeat 10
Press to repeat current song. Press again to turn off repeat function,

Next Song 11
Press to advance to the next song.

Play / Pause 12
Press to pause playback. Press again to resume.

Previous Song 13
Press to go back to the previous song.

Audio Setup 14
Press to enter audio setup mode (see page 10 for details).

iPod Videos
When the iPod video cable is connected (see page 6) and iPod video/photo playback is enabled in the setup menu (see page 12) and Video Output is turned on in your iPod, the AXV820 supports video playback.

Touch the **Menu Mode** button on the AXV820's touch screen display, then select Videos. Scroll through and select from one of the following video playback options: Movie, Music Video, TV Shows, Video Podcasts, Rental, Video iTunes and Video Playlist. Press desired video file to begin playback.

iPod Photos
When the iPod video cable is connected (see page 6) and iPod video/photo playback is enabled in the setup menu (see page 12) and Video Output is turned on in your iPod, the AXV820 supports photo playback.

Touch the **Menu Mode** button on the AXV820's touch screen display, then select Photos. Press **Play**, then **Start Slideshow** on your iPod, and your photos will begin playing on the display.

Note: The iPod photo/video display of the in-dash unit will not operate while the vehicle is moving. This is a safety feature to prevent driver distraction. iPod photo/video functions will only operate when vehicle is in Park and the parking brake is engaged. It is illegal in most states for the driver to view video while the vehicle is in motion.

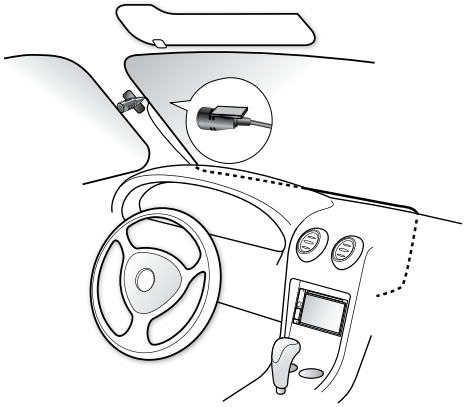
iPod Device Compatibility
Made for:
iPod touch (4th generation)
iPod touch (3rd generation)
iPod touch (2nd generation)
iPod classic
iPod nano (6th generation)
iPod nano (5th generation)
iPod nano (4th generation)
iPhone 4
iPhone 3GS
iPhone 3G

Bluetooth Operation

Bluetooth Microphones

Bluetooth features of the AXV820 function with either the unit's internal microphone or the included external microphone, which is designed for mounting in a convenient location inside the vehicle.

To use the external microphone, ensure the microphone is connected to the rear of the unit as illustrated in the Wiring Diagram on page 6. The microphone may then be mounted in the interior of the vehicle as show in the diagram below.



MOUNTING THE EXTERNAL BLUETOOTH MICROPHONE (OPTIONAL)

Bluetooth Setup Menu Options

From the Main Menu screen, press **Setup** to enter the Setup menu. Press ⓘ to scroll down or through the additional options until "BT" is displayed. Press **BT** to enter Bluetooth Menu setup.

Menu	Option	Action
Setup	Bluetooth	Select **ON** or **OFF** to enable or disable Bluetooth functionality.
	Connect	Select **Auto** to program the unit to automatically pair with available Bluetooth devices. Select **Manual** to require manual pairing.
	Mic	Choose between the **Internal** or **External** microphones.
Device List	Previously Paired Devices	Use the arrow keys to scroll up and down the list of previously paired devices. Press desired device name to connect.

Bluetooth Operation

Pairing a Device

Preparation

Before you can use a Bluetooth device, it must be paired and connected. Make sure that Bluetooth is activated on your device before you begin the pairing process.

Pairing a New Device

The AXV820 broadcasts the pairing signal constantly when no devices are currently connected. Complete the pairing sequence from your Bluetooth device. Refer to the owner's manual for your device for more details.

The device name is "AXV820"
The Bluetooth passcode "1234"

Note: The AXV820 can be in any mode of operation when pairing is performed.

Connecting a Paired Device

Most Bluetooth devices support the auto-connect feature and will connect automatically if the device is in range when the AXV820 is powered-on.

If your device was previously paired but does not connect, enter the Bluetooth setup menu (refer to page 31 for details) and select Device List. Use the desired up and down arrows to scroll through the list of devices. Press desired device name, then press "Connect" to connect the device.

Disconnecting a Device

To disconnect a device, enter the Bluetooth setup menu (refer to page 31 for details) and select Device List. Use the desired up and down arrows to scroll through the list of devices. Press desired device name, then press "Disconnect" to connect the device.

Deleting a Paired Device

To permanently delete a device, enter the Bluetooth setup menu (refer to page 31 for details) and select Device List. Use the desired up and down arrows to scroll through the list of devices. Press desired device name, then press "Delete" to connect the device.

Bluetooth Operation

Bluetooth Operation	Connect a Bluetooth device to the AXV820 as described on page 32.
Current Mode Indicator 1	Displays current mode of operation. Press to return to the Main Menu screen.
Information Display 2	Displays current information about the current contact.
Additional Mode Icons 3	Press any mode icon to switch instantly to that mode of operation.
Phone Keypad 4	Use the phone keypad to dial the desired phone number. Alternately, numbers can be dialed directly from the phone.
Bluetooth Indicator 5	When Bluetooth is on and a Bluetooth device is being paired, the Bluetooth indicator will flash. When Bluetooth is on and a phone is connected to the unit, the indicator will illuminate steady.
Clock Indicator 6	Displays the current time.
Call Audio 7	Press to transfer call audio to the phone. Press again to transfer call audio back to the unit.
A2DP 8	Press to stream audio from the phone using the on-screen controls to control playback.

Bluetooth Operation

Display Key Pad (9)

Press to return to keypad display during A2DP playback of streaming audio.

End Call (10)

Press to end a phone call.

Connect Call (11)

After entering a phone number, press to connect the call. Pressing this button without entering a phone number will automatically connect to the last number dialed.

Auxiliary Inputs AV 1 & AV 2

Using AV1 Input

Connect an optional audio/video source into the 3.5mm (front panel) input.

Select AV1 from the Main Menu to listen to audio.

Engage parking brake as described on page 22 to watch video.

Adjust volume on the external audio source as needed (if connected to the headphone output).

Using AV2 Input

Connect an optional audio/video source to the Auxiliary Input 2 (Red/White/Yellow RCA connectors). Refer to page 6 for details.

Select AV2 from the Main Menu to listen to audio.

Engage parking brake as described on page 22 to watch video.

Rear Camera Operation (Optional)

Using Rear Camera

Connect an optional rear camera to the Camera Input (Black RCA connector). Refer to page 6 for details.

The camera image can be reversed (if needed) in the Main Setup Menu. Refer to page 12 for details.

Manual selection - Touch CAMERA icon from the Main Menu to select camera mode. Touch the top left area on the screen to exit camera mode.

Auto Selection

The unit will automatically select camera mode when connected to the reverse lamp circuitry. Refer to page 6 for details. Anytime the reverse gear is selected, the unit will select camera mode automatically.

Limited One Year Warranty

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

Dual Electronics Corp. warrants this product to the original purchaser to be free from defects in material and workmanship for a period of one year from the date of the original purchase.

Dual Electronics Corp. agrees, at our option, during the warranty period, to repair any defect in material or workmanship or to furnish an equal new, renewed or comparable product (whichever is deemed necessary) in exchange without charges, subject to verification of the defect or malfunction and proof of the date of purchase. Subsequent replacement products are warranted for the balance of the original warranty period.

Who is covered? This warranty is extended to the original retail purchaser for products purchased from an authorized Dual dealer and used in the U.S.A.

What is covered? This warranty covers all defects in material and workmanship in this product. The following are not covered: software, installation/ removal costs, damage resulting from accident, misuse, abuse, neglect, product modification, improper installation, incorrect line voltage, unauthorized repair or failure to follow instructions supplied with the product, or damage occurring during return shipment of the product. Specific license conditions and copyright notices for the software can be found via www.dualav.com.

What to do?

1. Before you call for service, check the troubleshooting guide in your owner's manual. A slight adjustment of any custom controls may save you a service call.

2. If you require service during the warranty period, you must carefully pack the product (preferably in the original package) and ship it by prepaid transportation with a copy of the original receipt from the retailer to an authorized service center.

3. Please describe your problem in writing and include your name, a return UPS shipping address (P.O. Box not acceptable), and a daytime phone number with your shipment.

4. For more information and for the location of the nearest authorized service center please contact us by one of the following methods:

   - Call us toll-free at 1-866-382-5476
   - E-mail us at cs@dualav.com

Exclusion of Certain Damages: This warranty is exclusive and in lieu of any and all other warranties, expressed or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose and any obligation, liability, right, claim or remedy in contract or tort, whether or not arising from the company's negligence, actual or imputed. No person or representative is authorized to assume for the company any other liability in connection with the sale of this product. In no event shall the company be liable for indirect, incidental or consequential damages.

Specifications

Disc
Frequency response: **10Hz-20kHz**
Channel separation @ 1kHz: **>65dB**
D/A converter: **24 Bit**

FM Tuner
Tuning range: **87.5MHz-107.9MHz**
Usable sensitivity: **8.5dBf**
50dB quieting sensitivity: **15dBf**
Stereo separation @ 1kHz: **35dB**
Frequency response: **30Hz-11kHz**

AM Tuner
Tuning range: **530kHz-1710kHz**
Usable sensitivity: **26uV**
Frequency response: **30Hz-2.2kHz**

USB
Compatibility: **Full Speed USB 1.1**
Output: **5VDC, 500mA**

Monitor
Panel size: **6.2" diagonal measurement**
View angle (up/down/left/right): **70/70/75/75**
Resolution: **800 (H) x 480 (V)**
Brightness (cd/m^2): **400**
Contrast ratio: **600:1**
Pixels: 1,152,000

General
Speaker output impedance: **4~8 ohms**
Line output voltage: **2 volts**
Line output impedance: **200 ohms**
Chassis dimensions: **7" x 7" x 4"**
(178 x 178 x 102 mm)

Design and specifications subject to change without notice.

CEA-2006 Power Standard Specifications
(reference: 14.4VDC +/- 0.2V, 20Hz~20kHz)

Power Output: 17 Watts RMS x 4 channels at 4 ohms and ≤ 1% THD+N
Signal to Noise Ratio: 80dBA (reference: 1 watt into 4 ohms)

Troubleshooting

General		
Problem	Cause	Action
Unit will not turn on (no power)	Yellow wire not connected or incorrect voltage Red wire not connected or incorrect voltage	Check connections for proper voltage (11~16VDC) .
	Black wire not connected	Check connection to ground.
	Fuse blown	Replace fuse(s).
Unit has power (but no sound)	Speaker wires not connected	Check connections at speakers.
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground.
Unit blows fuse(s)	Yellow or red wire touching chassis ground	Check for pinched wire.
	Speaker wires touching chassis ground	Check for pinched wire.
	Incorrect fuse rating	Use fuses with correct rating.
Unit has audio (but no video)	Parking brake safety circuit not connected Parking brake not applied	Check connections at parking brake. Apply parking brake as described on page 22.
No SD or rear camera video output	Video output is not supported for SD mode or rear camera input	Choose Tuner, Disc, operation of iPod, USB, A/V 1 or A/V 2 source to display video output.
No video display (when in reverse)	Reverse circuit not connected Vehicle is not in reverse	Check connections at reverse lamp. Select reverse gear.
DVD does not start playback	Physical defect in media Wrong region	Check media for scratches. Use discs labeled "Region 1" or "All" only.
IR remote does not work	Dead battery	Replace battery.
Excessive skipping	Unit is not mounted correctly	Check mounting sleeve.
	Physical defect in media	Check media for scratches.
Invalid Disc appears on display or ERROR 2 flashes on LCD	Focus error Disc is in upside down Disc type/content is not compatible	Press **EJECT**. If the problem persists, press **RESET** located behind the front panel as described on page 10.
Invalid Region appears on display or Wrong Region flashes on LCD	Region code error	Use only DVD's labeled "Region 1" or "All" only.

For Your Records

Please keep your original sales receipt and be prepared to provide this receipt in the event you require service, as your original receipt is considered the best proof of purchase and indicates the date you purchased your Axxera product.

Dealer Name _____

Dealer Phone _____

Purchase Date _____

Register Your Product

Register your product online at **www.axxeraaudio.com.**

Dual Electronics Corp.
Toll Free: 1-866-382-5476

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